

# INTERNATIONAL SEARCH REPORT

Intern Application No  
PCT/GB2005/003385

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F16K5/20

According to International Patent Classification (IPC) onto both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F16K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	WO 99/00619 A (LIBERTY TECHNOLOGIES, INC) 7 January 1999 (1999-01-07)  page 7, line 11 - page 10, line 13; figures 1,4,5 -----	1-8, 11, 13-20, 22-24
X	US 4 066 240 A (ATKINSON ET AL) 3 January 1978 (1978-01-03)  column 3, line 25 - column 6, line 59; figures 1,2 -----	1-8, 14-20, 22-24
X	GB 1 201 773 A (ISTAG AG) 12 August 1970 (1970-08-12)  page 3, lines 66-95; figure 4 ----- /---	1-8, 14-20, 22-24

☒ Further documents are listed in the continuation of box C

☒ Patent family members are listed in annex

### \* Special categories of cited documents

- 'A' document defining the general state of the art which is not considered to be of particular relevance
- 'E' earlier document but published on or after the international filing date
- 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- 'O' document referring to an oral disclosure, use, exhibition or other means
- 'P' document published prior to the international filing date but later than the priority date claimed

- 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- 'X' document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- 'Y' document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents such combination being obvious to a person skilled in the art
- '&' document member of the same patent family

Date of the actual completion of the international search

2 November 2005

Date of mailing of the international search report

17/11/2005

Name and mailing address of the ISA

European Patent Office, P B 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040 Tx 31651 cpo nl  
Fax (+31-70) 340-3016

Authorized officer

Hatzenbichler, C

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 4 020 864 A (CHURCH, JR. ET AL) 3 May 1977 (1977-05-03)  column 5, lines 3-20; figure 3 -----	1-8, 15, 16, 20, 22-24
X	US 2 890 856 A (CLADE ROBERT) 16 June 1959 (1959-06-16)  column 1, line 63 - column 2, line 64; figure 2 -----	1-8, 14-20, 22-24

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			DE 69817821 D1	09-10-2003
			EP 0991888 A1	12-04-2000
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			FR 1552886 A	10-01-1969
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US 4020864	A	03-05-1977	NONE	
US 2890856	A	16-06-1959	NONE	